Using detailed human activity and remote sensing data to assess wildlife responses to altered human behavior during the COVID-19 pandemic
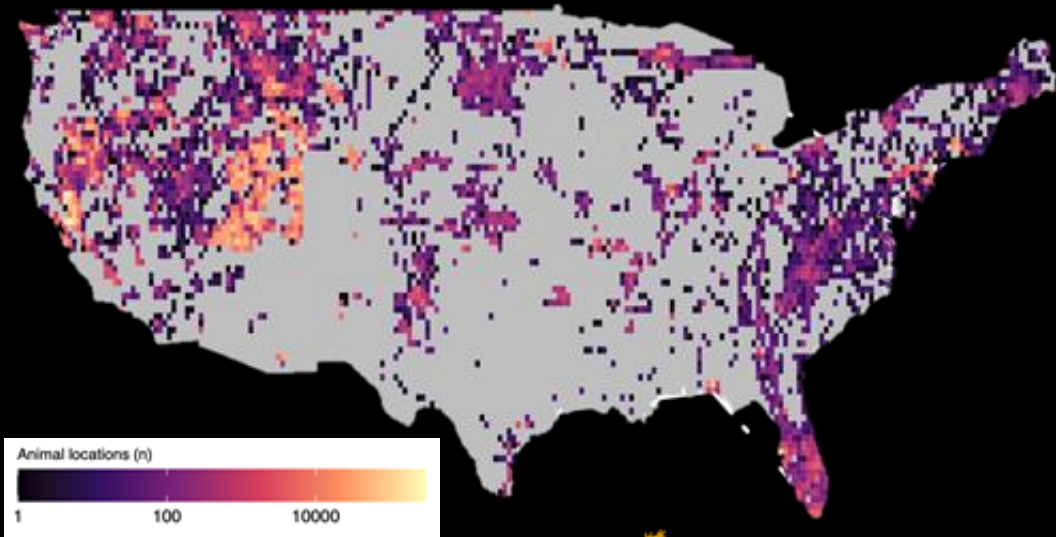
Diego Ellis Soto

Ecology & Evolutionary Biology, Yale University

NASA FINESST Fellow

NASA Joint Science Workshop May 9th 2023

Sharing a crowded planet: COVID-19 lockdowns reveal the footprint of human activity on wildlife

Animal locations (n)
1   100   10000

- ~12 million GPS locations
- >4000 individuals
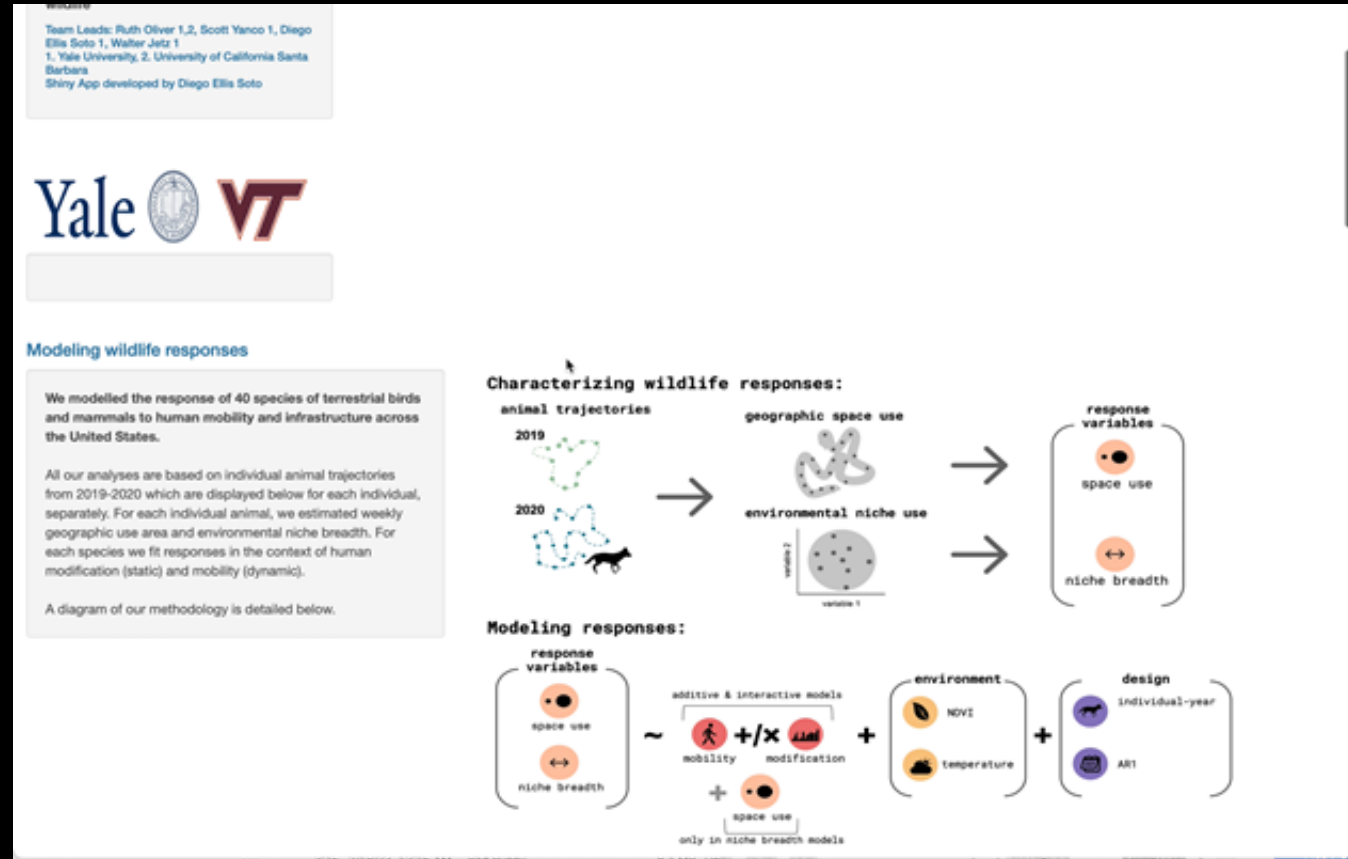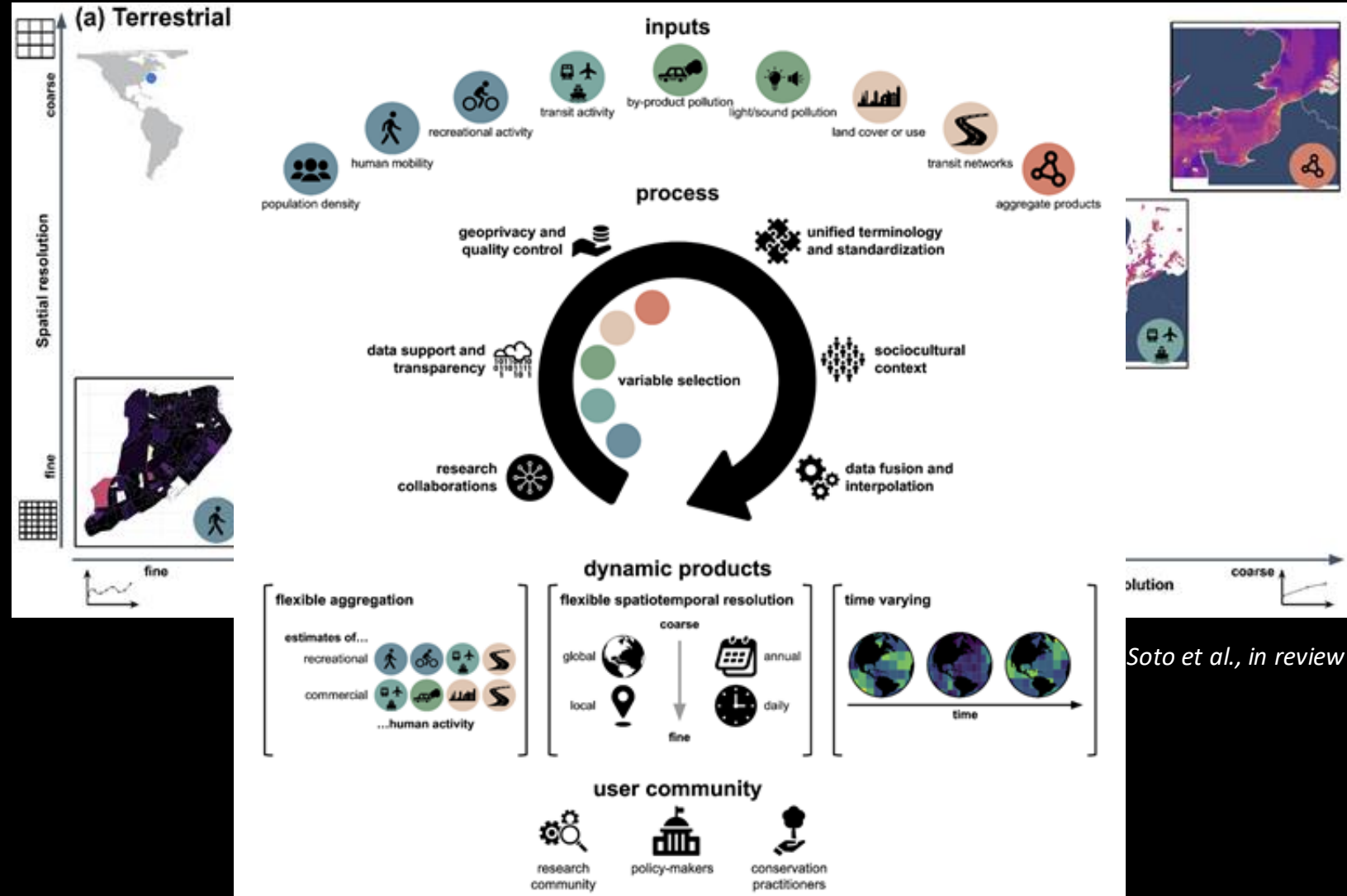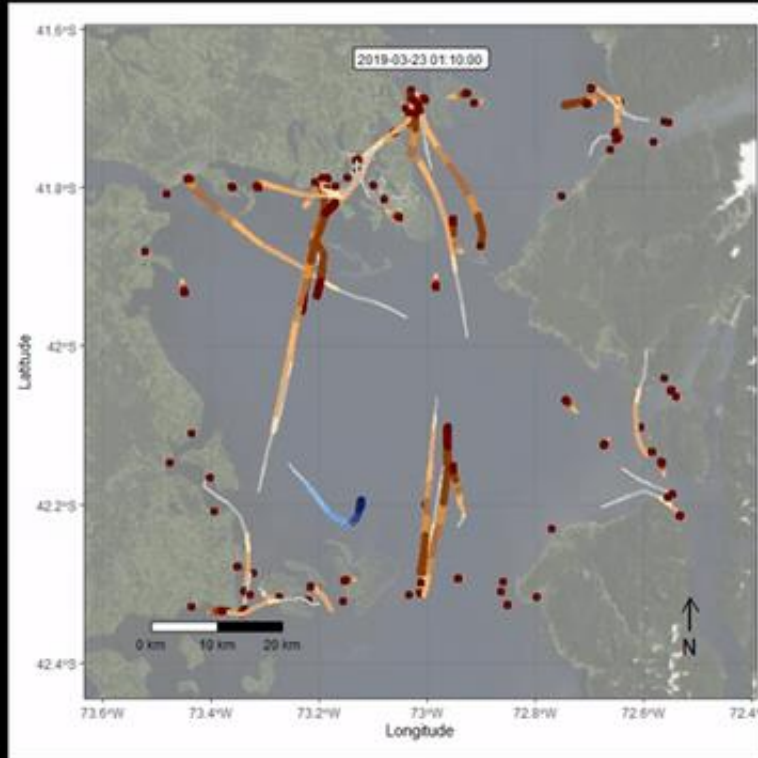- 42 species

Ruth Oliver   Scott   Brett Jesmer

Large collaborative studies require interactive web tools

We need something more dynamic

A vision for incorporating human mobility in the study
Human activities encompass the static & dynamic products
of human-wildlife interactions

Soto et al., in review

Ellis-Soto et al., in review